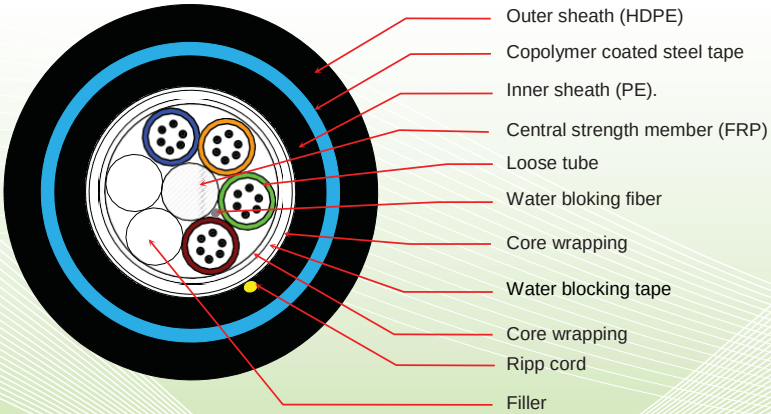
03 LOOSE TUBE CABLE FOR DUCT (STEEL ARMODED)

Cable structure



Featurs & application

- For installations in duct, trenched or tunnel systems. All section water blocking provided reliable performance of moisture-proof and water block.
- Design allows sub cables to be routed to multiple locations such wiring racks and closets;
- For requirement of an extremely rugged and reliable cable design where maximun mechanical and enviromental protection is necessary.

Mechanical & Environmental Characteristics

SPECIFICATIONS	PARAMETERS
Number of optical fiber	12 Fo ÷ 96 Fo
Out sheath diameter	11.0 mm ÷ 18.0 mm
Maximum load (installtion)	2700N
Maximum load (Operation)	1350N
Allowable crush load	2000N/100mm
Temperature ranger (installtion)	-5^{0}C ÷65^{0}C
Temperature ranger (operation)	-10^{0}C ÷65^{0}C
Bending Radius (installtion)	10*D (D= Cable diameter)
Bending Radius (operation)	20*D (D= Cable diameter)
Longevity	≥ 15 Years

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Identification

TIA/EIA-598-A Compliance							
1	Blue	2	Orange	3	Green	4	Brown
5	Grey	6	White	7	Red	8	Black
9	Yellow	10	Violet	11	Pink	12	Aqua

Optical Characteristics

Specifications	Unit	Fiber tyle: SM-ITU-T G.652D
***. Geometrical characterstics**		
Mode field diameter at 1310nm	µm	9.2 ± 0.4
Cladding diameter	µm	125 ± 1
Core-clad concentricity	µm	≤ 0.6
Cladding non-circularity	%	≤ 0.7
Coating diameter	µm	245 ± 10 (none color) 250 ± 10 (includding color)
***. Transmission characterstics**		
Attenuation at wavelength: 1310nm÷1625nm	dB/km	≤ 0.4
Attenuation at 1550nm	dB/km	≤ 0.22
Chromatic dispersion	ps/nm.km	≤ 3.5 at 1310nm ≤ 18 at 1550nm
PMD index	ps/km$^{1/2}$	≤ 0.2
Zero dispersion wavelength	Nm	1300 ≤ λo ≤ 1324
Zero dispersion slope	ps/nm^2.km	≤ 0.092
Cut-off wavelength	Nm	λcc ≤ 1260
Macrobend loss at 1625nm (radius = 30mm * 100 turns)	dB	≤ 0.1
***. Mechanical characterstics**		
Proof stress	Gpa	≥ 0.69

*. Using the optical fiber from Corning, Fujikura, Sumitomo and Furukawa.

Informations and parking

- The informations of the cable is printed per meter length complies with IEEE P1222. Other information will be printed as the request of customer.
- Standard length: 5000m or is packed according to customer's requirements.